

Comparisons of Job Characteristics

Focus Occupation: Reinforcing Iron and Rebar Workers (47-2171)

Associated Occupation: Structural Iron and Steel Workers (47-2221)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Reinforcing Iron and Rebar Workers (47-2171)
Associated Occupation: Structural Iron and Steel Workers (47-2221)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Building and Construction	4.0	18.3	16.9	0	Current knowledge level may be sufficient
Mechanical	6.8	13.5	9.1	<<	Extensive education and/or training may be required
Production and Processing	6.0	13.2	5.0	<<	Extensive education and/or training may be required
Mathematics	9.2	12.5	9.2	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	11.5	5.5	<<	Extensive education and/or training may be required
Design	5.2	11.2	4.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Reinforcing Iron and Rebar Workers (47-2171)
Associated Occupation: Structural Iron and Steel Workers (47-2221)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Coordination	9.1	11.2	9.3	<	A higher skill level may be required
Operation and Control	5.4	10.8	8.2	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	10.2	7.4	<<	Extensive development of skills in this area may be required
Repairing	3.4	6.2	5.2	<	A higher skill level may be required
Equipment Selection	3.3	6.1	5.6	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 92			
Focus Occupation: Reinforcing Iron and Rebar Workers (47-2171) Associated Occupation: Structural Iron and Steel Workers (47-2221)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Static Strength	5.0	16.6	12.9	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	15.3	11.8	<<	Extensive improvement in abilities may be required
Arm-Hand Steadiness	6.8	14.3	10.1	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	13.5	11.2	<	Some improvement in abilities may be required
Depth Perception	5.3	13.3	9.4	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	13.0	9.0	<<	Extensive improvement in abilities may be required
Trunk Strength	5.7	12.6	12.2	0	Current ability level may be sufficient
Auditory Attention	5.9	11.6	8.0	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	11.5	8.8	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	8.5	4.1	<<	Extensive improvement in abilities may be required
Peripheral Vision	2.2	6.8	5.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 95	
Focus Occupation: Reinforcing Iron and Rebar Workers (47-2171) Associated Occupation: Structural Iron and Steel Workers (47-2221)			
Work Activities		Exclusivity of Activity	
Adhere to safety procedures		12	
Build or repair structures in construction, repair, or manufacturing setting		54	
Burn (cut), trim, or scarf metal objects		80	
Cut metal or plastic		77	
Erect scaffold		56	
Fabricate, assemble, or disassemble manufactured products by hand		11	
Identify base metals for welding		68	

Identify properties of metals for repair or fabrication activities	71
Move or fit heavy objects	8
Perform safety inspections in construction or resource extraction setting	46
Read blueprints	10
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use hand or power tools	2
Use measuring devices in construction or extraction work	41
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 85

Focus Occupation: Reinforcing Iron and Rebar Workers (47-2171)
Associated Occupation: Structural Iron and Steel Workers (47-2221)

Tools and Technologies	Exclusivity
Business function specific software	1
Compressors	9
Computers	1
Cutting and crimping and punching tools	3
Face and head protection	7
Fall protection	16
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Ladders and scaffolding	6
Lifting equipment and accessories	3
Pneumatic tools	8
Power tools	2
Prying and bending tools	10
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.